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TITLE : ACTIVATED CARBON, ITS PRODUCTION AND ELECTRODE FOR  
ELECTRIC-DOUBLE-LAYER CAPACITOR

ABSTRACT : PURPOSE: To increase the specific surface of mesopore region necessary to a large-capacity capacitor, to decrease the specific surface of a micropore region and to efficiently utilize the specific surface by specifying the pore distribution obtained from a nitrogen adsorption isotherm.

CONSTITUTION: At least one kind of carbonaceous material among coal, coconut shell, sawdust, resin, etc., is carbonized at  $\geq 300^{\circ}\text{C}$  to obtain a granular, granulated or powdery carbonaceous material. The carbonaceous material is activated with steam at  $\geq 900^{\circ}\text{C}$  to obtain the material with the specific surface of  $\geq 20$  pore diameter controlled to  $\geq 1000\text{m}^2/\text{g}$  and its ratio to the total specific surface to  $\geq 0.30$ . The activated material is further activated at  $400\text{-}1000^{\circ}\text{C}$  with an alkali metal hydroxide such as KOH and NaOH and an alkaline-earth metal hydroxide as the activator to obtain the activated carbon. When the activated carbon is formed into a capacitor, etc., a binder such as polytetraethylene resin is added by one to several % and mixed, and the mixture is press-formed. When an electrode is formed, a conductive material such as conductive carbon black is added to decrease the resistance of the electrode.

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